Sachin Kumar

sachin.kumar17@nmims.in | +91-8986719963 | linkedin.com/in/sachinkumarofsec | github.com/sachinkumar-gg

PROFESSIONAL SUMMARY

Second-year B.Tech Computer Science Engineering (Cybersecurity) student at NMIMS Mumbai (CGPA 8.0/10) with foundational knowledge of Linux, networking and web application security, and hands-on experience building security-focused projects. Led development of Orix, a Zero Trust AI browser security system that placed 1st Runner-Up at HACK IITK 2026. Interested in Security Operations, SIEM-based monitoring, threat detection, vulnerability assessment and incident response.

EDUCATION

Mukesh Patel School of Technology Management and Engineering — Mumbai, India
B.Tech in Computer Science Engineering (Cybersecurity) | CGPA: 8.0/10 — *Expected May 2029*

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, SQL
Operating Systems: Linux, Windows
Networking: TCP/IP, DNS, HTTP/HTTPS, Networking Fundamentals
Cybersecurity Tools: Burp Suite, Nmap, Wireshark
Frameworks & Libraries: Flask, FastAPI, Express, React, Playwright, BeautifulSoup
Technologies: REST APIs, Chrome Extension APIs, Docker, Git, Reverse Engineering
Security Concepts: Web Application Security, Vulnerability Assessment, Threat Detection, Phishing, Prompt Injection, Security Fundamentals

PROJECTS

Orix – Zero Trust Agentic Browser | ***GitHub*** — *Jan 2026 – Apr 2026*
- Led and primarily developed a Zero Trust, AI-powered browser security system using Python, FastAPI and Playwright; placed 1st Runner-Up at HACK IITK 2026
- Architected a multi-layer security validation pipeline performing DOM analysis, intent detection and action validation before agent actions execute
- Implemented threat detection to identify and mitigate prompt injection, phishing and potential data exfiltration attacks
- Integrated Google Gemini with custom validation middleware; built a security-focused Chrome extension and a modular architecture for extensible detection rules
- **Tech Stack:** Python, FastAPI, Playwright, JavaScript, Chrome Extension APIs, Google Gemini API, BeautifulSoup

Live Collaborative Pixel Canvas | ***GitHub*** — *2026*
- Built a live collaborative painting installation for the FOSS Club induction event, where visitors co-paint 24x24 frames on two tablets while the full artwork assembles in real time on big-screen displays
- Designed an offline, LAN-only deployment with no cloud dependencies, interleaved frame allocation across tablets, an image preprocessing pipeline, and an automated end-to-end test suite
- **Tech Stack:** Node.js, Express, React, SQLite, Vite, sharp

LEADERSHIP EXPERIENCE

Technical Head — Jul 2026 – Present
FOSS Club, MPSTME — *Mumbai, India*
- Lead the club's technical initiatives and development workflow; manage the GitHub organization, repositories and collaborative development practices
- Conducted and taught HackBook, a hackathon-readiness workshop for students
- Led the tech team for HackForge, a 24-hour hackathon
- Coordinate technical teams to execute institute-wide technical events on open-source software and emerging technologies

Vice President — Jul 2026 – Present
Khachaak – Photography Committee, MPSTME — *Mumbai, India*
- Lead committee operations, strategic planning and executive coordination across multiple teams
- Oversee recruitment, branding and project execution for institutional events and committee initiatives

ACHIEVEMENTS & CERTIFICATIONS

- **1st Runner-Up – HACK IITK 2026 (IIT Kanpur)** for developing Orix, a Zero Trust Agentic Browser
- **Winner – CBSE Regional Science Exhibition** for developing Kisan Mitra, an agricultural assistance system
- Oracle Cloud Infrastructure Foundations Associate
- JPMorgan Chase Software Engineering Virtual Experience (Forage)